

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/973,249	MOHSENI ET AL.	
	Examiner	Art Unit	
	Nguyen Ngo	2663	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 1/17/2006.
2.  The allowed claim(s) is/are 12-20,22,31-36,38 and 39.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All b)  Some\* c)  None of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

## DETAILED ACTION

This communication is in response to the amendment of 1/ 17/ 2006. All changes made to the Claims have been entered. Accordingly, Claims 12-20, 22, 31-36, and 38-39 are currently pending in the application.

### ***Allowable Subject Matter***

1. Claims 12-20, 22, 31-36, and 38-39 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

2. Claim 22 and 39 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose the producing a first analog component based on the transferred first component and a second analog component based on the transferred second component. It is noted that the closest prior art, Kawabe et al. (US 6377613) discloses a radio demodulation method employing QPSK so that a plurality of received signals are demodulated simultaneously. However, Kawabe fails to disclose or render obvious to the above underline limitations as claimed.

3. Claim 35 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose the shifted value being equal to  $2^l$  times the input value, where l is an integer and wherein a value of the delayed second component is based on the shifted value. It is noted that the

closest prior art, Kawabe et al. (US 6377613) discloses a radio demodulation method employing QPSK so that a plurality of received signals are demodulated simultaneously. However, Kawabe fails to disclose or render obvious to the above underline limitations as claimed.

4. Claim 36 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose the transfer function of the filter. It is noted that the closest prior art, Kawabe et al. (US 6377613) discloses a radio demodulation method employing QPSK so that a plurality of received signals are demodulated simultaneously. However, Kawabe fails to disclose or render obvious to the above underline limitations as claimed.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571) 272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

N.N  
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**Nguyen Ngo**  
United States Patent & Trademark Office  
Patent Examiner AU 2663  
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RICKY Q. NGO  
SUPERVISORY PATENT EXAMINER